

_ Marsh Effluvia, _

or the

Sources of



BY

March 8th Bay's Clis.

1822.

Inaugural Dissertation

An Casay upon Slawk Effluria or the Sources of Autumnal Diseases.

As counted with the sources of Autumnal Repen Sthall bring into view some of the prominent features of Progetable Whysiology.

Al has been established by the experiments of Mumbels and aller Milarphones, that plants deeme their morrishment more from the elements of Michaels and begelables, token plansled by the partie faction for the form from the earth.

They are regularly expanied bedies, and the explain of their systems decompose and opinitials to their own nature the teaster

of the earth, the gass climinated by futice faction, and the almosphow which fleats

Who the goial townth of officer solute iteeff out the face of treation, the last times of the last times of the last times of the last times of the last the last times to the freeding town of machin, and the last time of the freed to the last their leafy honours. By taked and animal pulse faction Commonwhile and the North which their they have the freeden of the North time in the last of the freeden of the last time in the last of the freeden of the last time in the last of the freeden of the last times in the last of the freeden of the last of the las

trink in the disalt of this decomposition. The merdones resume their carpet of

green, and flowers of all hurs how to embellish the beautiful oreation. Degets ble life flowrisher while puter faction gost on rapidly.

This state of things continues contil the middles of stemmen, to hen the Thusbandman defines the fields of their years and graps and stores his haw

with the products of his industry and love. and their appetite for their destined foods ble to the life of the negetable Kingdones regetation is the harlinger of sickness to us. I is said that plants through the medium of their leaves inspire during the acid and which excelled from an lungs to the earth, is absorbed by the organs of regelables and again becomes converted into living matter. They properly many other functions dimilar to the animal Cre

Should intercourse is preserved among them and is neefary for their laprovolvations land token ale Malure sinks and the arms of block the flavour of the file and the sails of the ferst take also then there? Many plants are ten to that their law & alose their flavour & alose their flavour & alose their flavour & alose to the the term selection to the term selection to the term selection.

lead the negletable excation to kick leads in much beauty to all the leaves of mature, not only to affile is with four four for our folds and muridiment, but by its hier organization absorbs the deletioner rapore from the almost four and direct them in higher they waste from the least of th

all Alumn approaches these persons elitates in the security of stryumb can test , and of Rivers What have bey waps within left an according marchy stores deeps to beful form Suttentitlet Primite Least believe fevers, Cyrintery and all that believe fevers, Cyrintery and all that have of diseased brailyth on by

maximata fleating in the Utmarphace. Here allowed disappear to be the to agree of template have charted the december has a contained the december of accordance of the state o

He encland for so have a sure as the second teriled by Dr. Is have and their have so doubt their origin from the same so tomeer. He while and fangur ahead annually overflow the have so conging quelifity and health to the house orders which they injundate, also souther with a februar hange the start of thousaid a februar hange the start of the substitution is to being distinction in the substitution.

The fevers of the Which Indies defended a four the value caused in the claws are secretarily permisered in these almost the second in a consentialist form these versions askalations; to kick hade been elevated by the store layer that the effect of gious of the atmosphere. The effect of

telved to their influence. The movie my Lever very down makes its appearance among them. The first Vain which falls herather, as well as the dews are Said to be so impresented with a destruction terials of that kinde, when exposed for a that time to their action, hap into specdry decomposition, and clothes after such infusine being presented to the rays of the sun down become Covered with unne merable animaleula. The inhabitants are so well aware of this fact, that after having been sech by there, they plunge themselves into the girst Theam they much with, or into the account; Thence the hep what apinion of deer heing unhealther Seems to have a goode Soundations.

those

Johnson Relates that on the Analian Coash, where the thermometer stood at gy during the day, the evenings were cool, and the dews which fell more of a perfectly salt and bitter taste; and that a very great difference to as absenced in the health of Those orems of ships which were exposed to them, rude those which were preserved from their action by shelter. The norious scholations from the marshes of that cour which were found by Johnson to be the na fection metty largely employed when calledo early, Ludo Clepetited is often as the Iny the alimentary canal, to induce the Therewise action as Capidly as notible. of this was once effected, the danger the disease vanished before the impref-Sion of that powerful Comedy.

These minimate to me deformate their in frame to a very winds them in to concentrative a form as to be productive of new tensive consequence to them in separable this section. They may also be intermetted in their course by thicks and lofty freets, to by an elevation mountain. The paper than in the course by the course to be and lofty freets, to by an elevation mountain. The paper than in all converte to her they said for fully present.

The Motor seed to day that he could observe a for thing unity in the morning from the last time there of the Schillener from the motor walled by the prevailing the Mr. tends where the first his the security of the adjoint from the formal for the adjoint freeze to the power became freeze and for the adjoint of the adjoint of the adjoint of the adjoint of the security of the adjoint of the formal freeze and the first could be presented to the thousand of the thought the thousand the the thousand the them of the thought the thousand the them of the thought the security there are presented the them of the thousand the them of the thought the security the thousand the them of the thought the security the them of the them the security the security the security the security the security the security that the security that the security that the security the security the security the security the security that t

in ?

A sich of diseases could almost be defined Those is a very decisive instance of the effects of woods in anisting the mowhom the shores of the Delaw are and the banks of Timber freek, to the East have the house and this march which Surface covered with Vegeto- animal lemains and almost inhonetrable forest of hime trees, so thick that the cattle with dillicutty passed through it. This offerede over to the miasmata in their approach to the house, and for a heriod of 2003 years after Temoving there the family onHas lu

enjoyed goods health. At the end of this time, this out post of their health and quando of their lives was sacrificed to quality the eye with a more extended awaited them. When the genest had falmalignant Clemittent fever, a disease breen dulyly incidious and fatal in its nature, suffering the constitution to appear little diseased for a sew days, and then sudden

The member of persons more or left after that, including mures, physicians, and friend amounted to meanly of quite sweety, sto

eral of this number died.

They raing seasons by overing the mon the look leader, or why dry was source me by repeatly waspolating the missmata

Jo gu lafine though May 1

atmosphere are both favorable to theatth. But monshes by being partially coaperated and their Shores light Constantly mout by falling James, Subjected at intervals to the direct and powerful lays of a summer sun, are certainly , the most prolific some of fever, Which disease appears to be the areal entlet of human life, The Coun this of the Castern Hemisphere as bringal and Rought, are more subject to diseases to onote the beautiful language of Det dolundow / tohose works Stands among the Leist Records of medicines for chafte and thought, as well as bold and decision that of Bougal, and so fatile an alla viow at the Delta of the Langer, we may well suppose of that every spot, al

negetable life, As the scale of existence descends in the animal Kingdom, the a animated beings, whose exhumeral vi tality has idencely commenced before it closes again in death; no dooner ticula aura" deserted its tenement of Near and moustine into its constituent materiale and formed without delay With ceaseles change the astless atoms had The bounteous shows at the Nile present lande to here futility ande wealth are dit durice by it ihundations, the pestilence

over the lives of men. Here the plague So the extension of this epidencie over wide districts of country? The foundarather precarious I Diferctions were Carried on by the French and English dow gious during the campaign of Irapoleon in Egypt, under proper precautions with infrienty. The yellow fever of our own downtry too, in a pune atmosphere and claubly aboutments is not Communicated from one individual to another by contook. In aportmout many become no doubt by having several hersons contined in if with the fever, so saturated with human ellewin as to knoduce a man lignant disease. But under opposite Circumstances we are not acquainted

of Contagion. Must bee not desort them to aided by local Causes to account for the diffusion of some of these scampes of moulinosp? What gain rise to the shot ted fever, as it wear termed of the United istended itself over the whole of the Eastern section of air country ande come as far South as Philador. The Muine opening soon after it arrival cheve, it progress was an certial: but when truiter adain held the South and beech, coming distruction in its course to numbers of the inhabitants. . An epidenie de universal Caula not les traced to Contagion, and the usual deman Autumnach fewers weere locked up in adamantine chains of frost, low have then no other source to trace it to than Some morbid Constitution of the atmos-There, produced by the hidden and

the by S tiel

inexplicable operations of Mature. The influence too to hick how once or twice visited us deems to depend upon Jone dorangement of the air we breather. the Sickle state of the air wil every age by different The sicions and Philosophers. Some of the ancients supposed it aclose from the prevalence of certain londs and peculiarities of season; others that a very sabile and was estated from the bowels of the earth; and Webster a philosopher of the present day supposes it is caused by the Electricity which bunounds and penetrates our glate He consider the Electricity to be influ enced by the approach of Comets, and onumotatio a warrity of instances wherein Cornets, south-quakes, volcances, & pertilentril periods were succeeded or accompan nied by each other. Admitting these Natements as true, they shed but a feeble

with die di hay of light upon the dock part which some of lace in the sellimate some of the action of the action of making into which the familie found of the seminal mines wice probably some he able to proceed or

Many other cause of enderine diseases are recomposition of negle arimal matter.

The crows of shift are said to have sufficed from an explanic. The tembers of the brighest having here green. That was the dammake adjacent to the house at times to the Soundard of decays at times to the Soundard to the course at times to the Soundard bett having produces a diverse, that altocker the Soulard and all there to house the medical the soulard and all there to house the soulard the soular

There is a decrease forwarding on the share of the Schenylkite to hich commenced principally with the externiblant type

Ying the 61 9 eted

a low cases of the remittent only occur the thake of the latter, principally. A had Sew Cases terminated Lataker. The banket is larely demanded, the their having and should lendency to aprime the trepping type . This epideline extends from nin Thisade to a qual distance up the Mor. A is traked by many persons to the Dams which are breeted on the Schiele for the purpose of audering the theam navigable. These may the doubt have considuable influenced whom the Sumoun dino atmosphere, as they much Collect a qual quantity of mind in their bettones, Cohich Contains much regetable and animal matter; but the Veason has been extremely wearing and dry, The Cliver tated Wheth it's shores Covered with graft mud and stagnant deater, exposed to

the direct rays of the sew . A map pregnank with poison and exhaling it's pestite crow breath whow the air doe breather. There extends also for a Considerable stable Julytance, which ground in whise thick majores, so as in Isme places al most to impede the Course of a boats-This token out up by the wiew craft on ha led a very disorperable offluria. Grafi grows in some of the hourds, and as vegclables depond for their life and support apon the decomposition of their kindred Sul-Stances, there much be much food for them amonated beneath the water by the heat of the sun. This grass precishes and undergoes a floods which took place about the frished deptember, the disease has very much in areased. The criew afterwards became very low, and its theres were left in a Manyly Mate. The sun players upon a surface failile

with disease, " produced Intermittent and Clemittent fears in abundance. Krench bereato which emplies into the Jahle Vis lender ed Stagnant not for from its mouth by march covered with dhalter docks. At is a fine hot bed for disease & some of the its leanles, The winds have blown from The South ande South East most of the time times the disease began it's avages, ande from their Caredwino Influence the minemate at the canal have suffered from the disease . The fresh duy earth man probably have a deleterious influence on the health of the works men. Mout their cabined that will neither protect them from land now your, drinking immoderately of ye to his key and demaining a long time

in the energy are to her the oten is galling to hid in this place is now theony and call protect to the action of the maximata. The steels of the discusse may there are any the discusse that the system, and any together an excite the system, and any together an excite the string them hat action. It want to he had there for Philade in good track to the last there for Philade in good to be able to the string than the track on the last to be of the sufference of the arrival at North lower to the action to a favorage or the invital to a favorage or the invital the south to be the together the south to the together to the stands

gave and opportunity for the disease to

develop it

He cartied which inhabit the Court we great abundance, have click in should along the stream for a considerable distance. He spirit to accept in Melster and other authors, that such account have ced are not uncommon during pristelies

town

pertilectial periods. The effect must depende A cannot be proved that the dains are the cause of all the michiel takiel prevails: because at this place, about twenty fine within many mikes of this place (is Though Creek). The diseases which have mevailed whom the shores of other large streams last Summer & this dallo-go tal confirm the opinion that the dams love not the sole cause of these enduries. On the borders of the of Considerable malignancy, At Lewis town on its Mest branch a bilious fever of a high grade how carried all many Gial prison, that Thangers Clemaining there

the to 1. afse but on might soon disense with the desires and in a face house brought to the breints of the prevent fact from of different light in the milion of the Colores to the milion of the Colores to transact posts of the Contin Middle Returned from of the Menting States their desires estands from of the Menting of Might will be transacted as the Minguelannah, a small metage, he had been to any inher of the milion of the milion for Thinnelines the mary of them.

on the interior of Chester County and fine housing a sticke Surdence the afford to pe had existent to think to contact of make of the Many the to habitant to brought office in the Many to the straight daught.

The circumstance with other selms to add thought to the idea that a matic method of the in does at time each, and that it has a prevented influence in apporting local cases, to produce our efficiency audienced audie moderne descard.

I might now perhaps with property enter upon the sarpich of burner offlicion, but as the is to internately connected with the doctrine of contragion, I shall buch but lightly afron it This subject has difficult for upon the district occupación all the energis and talasts of more cal ence. If has been applied aude abandonests as the change of openions abandonests as the change of openions some cate a the party throughout the contragions with has been applied to the contragions of the change of the chan

I is a well known fact that lovered powers laboury under the effects of know merbed implied in achieved in achieved in a chieved in facility and having that although the formation and would the little and the live of the lower of the lower at the topic the atmosphere of the lower his tokich the arms phase of the lower his tokich they are delicated, and thereby the communicate a distance to factors which they have to the tokich they are delicated, and thereby the theory which they have to the tokich they are delicated to the tokich they are the tokich they are the tokich they are the tokich they there are the tokich they there are the tokich they there are the tokich the tok

goods healts were to be that up in a close apartment, ando filth duffored to accumueinstances might be Clebated of fevers that this I to here no other cause could be ting from the concentration of human enhan Cations and the accumulation of errementitions matters. Those unfortunate priso new toke were Confined in the Black Hale of Calcutta died a dreadful death from The air becoming leaded with Carbonic · doid gas and the effluera of their bo

At a conclusion to this impulsed spare upon the somes of Atomic diseases, I took offer a few prophylocalis (timeses) what may be of more procline importance than speculations who their causes; the nature of so had built only be discovered

of the tween. hade direct le to

lof time pours whom the paths of philosophy. As the Suich they therefore, all make . sed of regeto animal lemained in a state Ly demonedo, and deposited in some place where they will be innoxious to her beetly dry and the temple of Cloacina cumulation, will tend to present the tween houses and marshes aught to be sa credly quarded, as they will often times the mansions of the owners. Deallings direct lays at the sun toite be les lia ble to have dickly inhabitants than if the have therefore not only the inducement

de les mia janie an the No lue Ne m 8/15 of ornament but of health for surrounding answer a very goods purposed by being plant -ed in the fields adjacent to the houses such ou Coin, potatods &c - as they alisale the and. A family were once presente from an endline in a dection of this my in great abundance lounds the mendelle as a preventine and probably mile pouds, maisher 1e besides these harries to disease, should be eneted on the least side of such places . As the wond generally blows during the sum IM: and would Considerate watt the

bean

exhalation of these ponds and four directly from a dividing thus situated and ask cultured to the directly such as the others of the other others of the other of the others of the other o

The inhabitantes of such districts of Country should be very particular as to eleastings. Frequent leathing in colde leatu not only purifies the hody, but give, energy and tone to the system, and forte All it against morbid impressions. If the weated cannot be borne colde, it may be warmed, for if below the temperar ture of the dysten, it impacts a tonic effect, the to the touch it may deem bearn and pleasant. The atterior clathing may be light, though flurned should be work next the Heir. The windows of bed looms facing the moust should not be left apen at night, and the be particularly avaidable, also the air of the morning before the sun has lise

rudo. faction dimens Now 6 muca and o

vapors accumulated during the mixely. The soods and drinks should be taken the digestive organs in a sounde ands water and fumented liguor I toher porto and ale cannot be commanded by may be found in Jinger tow made strong but the pickede to drunkennis should be reprobated by way friend to mankened and his country . begetateles which are particularly those disposing to flatulency should decine a plentiful supply of con diment. During the Campaign of Napo lean in Egypt the Thench and English amnia Suffered Severely from Elys enter and other diseases of the alimentary canals lich .

howen this sugrous took the precaution to supply them doily with a quality of commence, and other spices, which there is the such the such their south south the such that their south all source continued the debility tokich all source on the organ of digestion.

The have of hourtes over an extensive and feeled surface, and without the hock of inference attempted to splane a studyed copies to the matter, and holding and the prospect of a tech handled to the opicious cultimater in the studyed with handled to the opicious cultimater in the studyed to the mineral surface.

But the nothing of this chay would not admit of its being lengthened much quither & Mether would the limited provided of a candidate for a moderal digres, have and his lasarding the host won speculation by the fact accumulative by the laboru of their

my heedless steps have no doubt passeds edo others that would have ornamen-Tout I have the Vatistaction of bee_ lieving, that I have done the liest my





